

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : **07-304630**  
 (43)Date of publication of  
 application : **21.11.1995**

(51)Int.Cl. **A61K 7/02**  
**A61K 7/50**  
**C11D 1/825**  
*// (C11D 1/825*  
**C11D 1:74**  
**C11D 1:68 )**

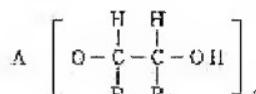
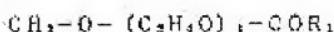
(21)Application number : **06-119644** (71) Applicant : **SHISEIDO CO LTD**  
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## (54) CLEANSING COSMETIC

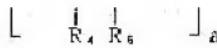
### (57)Abstract:

PURPOSE: To obtain a cleansing cosmetic having excellent removing effect on make-up, capable of being foamed by adding water, providing skin with a refreshing feeling after use.

CONSTITUTION: This cleansing cosmetic comprises (A) a polyoxyethylene glyceryl fatty acid ester of formula I (at least one of R1 to R3 is a saturated or an unsaturated higher aliphatic hydrocarbon group and the rest are H; (l), (m) and (n) are integers) and (B) a maltitol ether of formula II or formula (A is residue after removal of (a) × OH from maltitol; R4 and R5 are each H, an alkyl or an alkenyl and the total number of carbons of R4 and R5 is 6 to 22; (a) is 1 to 3) at the weight ratio of the component A:B=(2:1) to (1:8), preferably (1:1) to (1:8). Isostearic acid or oleic acid is preferably used as the fatty acid in the compound of formula I. A triester of



20-50 average degree of polymerization of ethylene oxide (EO), a diester having 5-40 average degree of polymerization of EO or a monoester having 3-30 average degree polymerization is preferable as the ester.



## DETAILED DESCRIPTION

### [Detailed Description of the Invention]

[0001]

[Industrial Application] This invention relates to an improvement of cleansing cream cosmetics, especially its usability.

[0002]

[Description of the Prior Art] It not only washes out sebum etc., but to wash out various cosmetics etc. is needed about the charge constituent of washing, especially a facial wash. For this reason, the person who gave the charge of face make up containing oil, such as a lip stick, foundation, mascara, and eye shadow, The cleansing cream which contained first the charge of face make up, and the oil which gets used easily so much as the first step at the time of washing its face, After removing almost all the makeup ingredient using the facial wash for cleansing cream oil, cleansing cream milk, cleansing cream gell, etc. makeup dropping, as a second stage story, Soap, cleansing cream form, etc. were bubbled, washing next to the skin was performed, and admiration or the satisfaction of admiration in the least had been shapely acquired by flushing the residual oil of the charge of washing for makeup dropping used in the first step with the sebum on the skin, and dirt.

[0003] Thus, when the cream kind for makeup dropping etc. which contain oil so much are used, two steps of washing are needed because the cleaned feeling which the oil which remained on the skin was not enough removed, but felt refreshed is not obtained, although it is water or lukewarm water and being promptly rinsed after use.

It is because only the facial wash for washing next to the skin which soap, cleansing cream form, etc. use bubbling cannot fully remove paints, a coloring material, etc. which were covered with the oil of the charge of face make up from on skin.

[0004] On the other hand, admiration and the skin cleaner it has a skin cleaner and the next-to-the-skin washing effect of admiration in the least are shapely wished the makeup dropping effect only by one operation in recent years when the quick nature of a makeup act and simple nature are being demanded. As such a skin cleaner for single steps, there are some which are indicated by JP,63-122618,A, for example.

[0005]

[Problem(s) to be Solved by the Invention] However, the charge of makeup dropping washing for single steps known conventionally, After rinsing, it is not able to remain in having lessened quantity of the oil which remains in the skin, and things in the least obtained by soap, cleansing cream form, etc. standing a bubble and washing bare skin, such as admiration or satisfaction after washing their face, were not able to be obtained. Namely, although it can be made to foam while a makeup can be dropped, and development of the charge of washing of washing next to the skin from which admiration is obtained in the least is desired, The charge of washing for makeup dropping is what must contain a lot of oil and oily components fundamentally as mentioned above, On the other hand, foaming, such as soap and cleansing cream form, and the charge of washing which brings about admiration in the least, Since the surface-active agent of ionicity with high hydrophilic nature is the main ingredients fundamentally, even if it is going to acquire both effects combining these ingredients simply, The actual condition was that will negate the effect mutually actually, the effect of dropping a bubble not only stopping almost

standing but a makeup will also be spoiled, and a satisfying thing is not obtained.

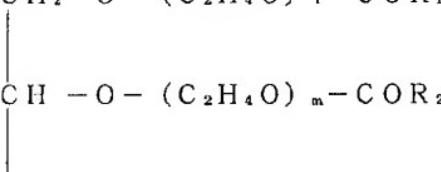
[0006]This invention is made in view of the technical problem of said conventional technology, and there is the purpose in providing the cleansing cream cosmetics which also have a high cleaning effect while it is excellent in usability and a use feel.

[0007]

[Means for Solving the Problem] In order that this invention person may solve this problem, as a result of repeating research wholeheartedly, by combining polyoxyethylene glyceryl fatty acid ester and specific maltitol ether, In addition to a makeup dropping function, it has a foaming function, finds out that cleansing cream cosmetics of washing next to the skin from which admiration is obtained in the least are obtained, and came to complete this invention.

[0008]That is, the cleansing cream cosmetics of this application according to claim 1 contain maltitol ether expressed in the general formula-ization 4 as polyoxyethylene glyceryl fatty acid ester expressed with the general formula-ization 3.

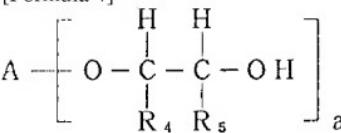
[Formula 3]



(At least one of  $R_1$ ,  $R_2$ , and  $R_3$  is a high-class aliphatic hydrocarbon group of saturation or an unsaturation among a formula, and others express a hydrogen atom.) I, m, and n are integers.

〔0009〕

[Formula 4]



(Among a formula, it is a hydrogen atom, an alkyl group, or an alkenyl group, and the sum total carbon numbers of  $R_4$  and  $R_5$  are 6-22, and, as for the residue excluding [ A ] maltitol to a hydroxyl groups,  $R_4$ , and  $R_5$ , a expresses the integer of 1-3.)

[0010]In addition, When polyoxyethylene glyceryl fatty acid ester is a triester object. When the average degrees of polymerization of the ethyleneoxide in one molecule of \*\* are 10-50, and a diester object and the average degrees of polymerization of the ethyleneoxide in one molecule are 5-40, and a monoester object, it is preferred that the average degrees of polymerization of the ethyleneoxide in one molecule

are 3-30. As for the fatty acid kind of polyoxyethylene glyceryl fatty acid ester, in this invention, it is preferred that they are isostearic acid and/or oleic acid.

[0011]Hereafter, the composition of this invention is explained in full detail. The polyoxyethylene glyceryl fatty acid ester used in this invention is what has the basic structure shown in the above-ization 3, At least one of R<sub>1</sub>, R<sub>2</sub>, and R<sub>3</sub> expresses the high-class aliphatic hydrocarbon group of saturation or an unsaturation among \*\* 3, and others express a hydrogen atom.

[0012] an average degree of polymerization of ethyleneoxide in one molecule of polyoxyethylene glyceryl fatty acid triester used in this invention -- 10-50 -- it is the range of 15-40 preferably. an average degree of polymerization of ethyleneoxide in one molecule of polyoxyethylene glyceryl fatty acid diester used in this invention -- 5-40 -- it is the range of 5-30 preferably. an average degree of polymerization of ethyleneoxide in one molecule of polyoxyethylene glyceryl fatty acid monoester used in this invention -- 3-30 -- it is the range of 3-20 preferably. Foaming becomes less enough [ all ], and when conversely higher than the maximum, an effect of dropping a makeup becomes less enough [ all ], when an average degree of polymerization is lower than the minimum.

[0013]In the above-izing 3, when it thinks from a point of a makeup cleaning effect in consideration of being combination to a detergent composition of a drainage system as a fatty acid kind of polyoxyethylene glyceryl fatty acid ester, it is preferred that they are isostearic acid or oleic acid. In this invention, a kind or two sorts or more in said polyoxyethylene glyceryl fatty acid ester can be used arbitrarily.

[0014] Maltitol ether used with polyoxyethylene glyceryl fatty acid ester can be expressed with said general formula-ization 4. In \*\* 4, A is the residue excluding a hydroxyl groups from maltitol, and R<sub>4</sub> and R<sub>5</sub> are a hydrogen atom, an alkyl group, or an alkenyl group, respectively. As an example of an alkyl group or an alkenyl group, a methyl group, an ethyl group, an isopropyl group, Although an octyl group, a lauryl group, the Millis Chill group, a palmityl group, a stearyl group, a 2-ethylhexyl group, an isostearyl group, an oleyl group, a PAL MITOO rail group, an eicosenyl group, etc. are mentioned, As for the sum total of a carbon number of R<sub>4</sub> from points, such as detergency and a using feeling, and R<sub>5</sub>, it is preferred that it is the range of 6-22. a expresses three or less integer. a of foaming is not enough when larger than 3. In this invention, a kind or two sorts or more can be arbitrarily used out of these maltitol ether.

[0015]in this invention -- a blending ratio of polyoxyethylene glyceryl fatty acid ester and maltitol ether -- a weight ratio -- 2:1 to 1:8 -- it is the range of 1:1-1:8 preferably, and both sum total loadings are 1 to 80% of the weight of a range in the cleansing cream cosmetics whole quantity. When a blending ratio besides this range is not enough as foaming when there is too much polyoxyethylene glyceryl fatty acid ester, and there is too much maltitol ether, a makeup does not get used easily, and a satisfactory result is not obtained also when it is any.

[0016]Into cleansing cream cosmetics concerning this invention, an ingredient generally blended with a charge of washing, cosmetics, etc. other than the above-mentioned indispensable constituent can be blended if needed. As these ingredients, a polyhydric alcohol class of glycerin, 1,3-butanediol, propylene glycol, etc., Oil, such as a liquid paraffin and higher alcohol, an anionic surface-active agent, a cationic surface-active agent, an amphotolytic surface active agent, a thickener, a moisturizer, an antiseptic, a germicide, an ultraviolet ray absorbent, a chelating agent, an antioxidant, perfume, etc. are

mentioned.

[0017]As mentioned above, cleansing cream cosmetics of this invention, While dropping charges of face make up, such as a lip stick, foundation, mascara, and eye shadow, good by making maltitol ether coexist with polyoxyethylene glyceryl fatty acid ester, it can be made to foam by adding water.

## TECHNICAL FIELD

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[Industrial Application] This invention relates to an improvement of cleansing cream cosmetics, especially its usability.

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[Translation done.]

## PRIOR ART

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[Description of the Prior Art] It not only washes out sebum etc., but to wash out various cosmetics etc. is needed about the charge constituent of washing, especially a facial wash. For this reason, the person who gave the charge of face make up containing oil, such as a lip stick, foundation, mascara, and eye shadow, The cleansing cream which contained first the charge of face make up, and the oil which gets used easily so much as the first step at the time of washing its face, After removing almost all the makeup ingredient using the facial wash for cleansing cream oil, cleansing cream milk, cleansing cream gell, etc. makeup dropping, as a second stage story, Soap, cleansing cream form, etc. were bubbled, washing next to the skin was performed, and admiration or the satisfaction of admiration in the least had been shapely acquired by flushing the residual oil of the charge of washing for makeup dropping used in the first step with the sebum on the skin, and dirt.

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It is because only the facial wash for washing next to the skin which soap, cleansing cream form, etc. use bubbling cannot fully remove paints, a coloring material, etc. which were covered with the oil of the charge of face make up from on skin.

[0004] On the other hand, admiration and the skin cleaner it has a skin cleaner and the next-to-the-skin washing effect of admiration in the least are shapely wished the makeup dropping effect only by one operation in recent years when the quick nature of a makeup act and simple nature are being demanded. As such a skin cleaner for single steps, there are some which are indicated by JP,63-122618,A, for example.

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[Translation done.]

## EFFECT OF THE INVENTION

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[Effect of the Invention]The cleansing cream cosmetics which start this invention as explained above, While excelling in the effect of dropping a makeup by making polyoxyethylene glyceryl fatty acid ester and maltitol ether living together, it can be made to foam by adding water and the feel clean to the skin after use is given.

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[Translation done.]

[Problem(s) to be Solved by the Invention] However, the charge of makeup dropping washing for single steps known conventionally, After rinsing, it is not able to remain in having lessened quantity of the oil which remains in the skin, and things in the least obtained by soap, cleansing cream form, etc. standing a bubble and washing bare skin, such as admiration or satisfaction after washing their face, were not able to be obtained. Namely, although it can be made to foam while a makeup can be dropped, and development of the charge of washing of washing next to the skin from which admiration is obtained in the least is desired, The charge of washing for makeup dropping is what must contain a lot of oil and oily components fundamentally as mentioned above, On the other hand, foaming, such as soap and cleansing cream form, and the charge of washing which brings about admiration in the least, Since the surface-active agent of ionicity with high hydrophilic nature is the main ingredients fundamentally, even if it is going to acquire both effects combining these ingredients simply, The actual condition was that will negate the effect mutually actually, the effect of dropping a bubble not only stopping almost standing but a makeup will also be spoiled, and a satisfying thing is not obtained.

[0006] This invention is made in view of the technical problem of said conventional technology, and there is the purpose in providing the cleansing cream cosmetics which also have a high cleaning effect while it is excellent in usability and a use feel.

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[Translation done.]

## MEANS

[Means for Solving the Problem] In order that this invention person may solve this problem, as a result of repeating research wholeheartedly, by combining polyoxyethylene glyceryl fatty acid ester and specific maltitol ether, In addition to a makeup dropping function, it has a foaming function, finds out that cleansing cream cosmetics of washing next to the skin from which admiration is obtained in the least are obtained, and came to complete this invention.

[0008]That is, the cleansing cream cosmetics of this application according to claim 1 contain maltitol ether expressed in the general formula-ization 4 as polyoxyethylene glyceryl fatty acid ester expressed with the general formula-ization 3.

[Formula 3]



$$\text{CH}_2=\text{O}-(\text{C}_2\text{H}_4\text{O})_m-\text{COR}_2$$

For more information about the study, please contact Dr. Michael J. Hwang at (319) 356-4000 or via email at [mhwang@uiowa.edu](mailto:mhwang@uiowa.edu).

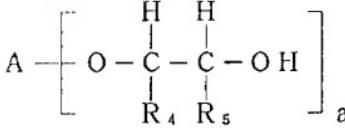
Figure 2. (a) 3D plot of  $\Delta E$  vs  $\alpha$  and  $\beta$ .

$$\text{CH}_2-\text{O}-\text{(C}_2\text{H}_4\text{O})_n-\text{COR}_3$$

(At least one of  $R_1$ ,  $R_2$ , and  $R_3$  is a high-class aliphatic hydrocarbon group of saturation or an unsaturation among a formula, and others express a hydrogen atom.) 1, m, and n are integers.

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(Among a formula, it is a hydrogen atom, an alkyl group, or an alkenyl group, and sum total carbon numbers of R<sub>4</sub> and R<sub>5</sub> are 6-22, and, as for residue excluding [ A ] maltitol to a hydroxyl groups, R<sub>4</sub>, and R<sub>5</sub>, a expresses an integer of 1-3.)

[0010] In addition, when polyoxyethylene glyceryl fatty acid ester is a triester object, when average degrees of polymerization of ethyleneoxide in one molecule of \*\* are 10-50, and a diester object and average degrees of polymerization of ethyleneoxide in one molecule are 5-40, and a monoester object, it is preferred that average degrees of polymerization of ethyleneoxide in one molecule are 3-30. As for a fatty acid kind of polyoxyethylene glyceryl fatty acid ester, in this invention, it is preferred that they are isostearic acid and/or oleic acid.

[0011]Hereafter, composition of this invention is explained in full detail. Polyoxyethylene glyceryl fatty acid ester used in this invention is what has the basic structure shown in the above-ization 3, At least one of R<sub>1</sub>, R<sub>2</sub>, and R<sub>3</sub> expresses a high-class aliphatic hydrocarbon group of saturation or an unsaturation among \*\* 3, and others express a hydrogen atom.

[0012]an average degree of polymerization of ethyleneoxide in one molecule of polyoxyethylene glyceryl fatty acid triester used in this invention -- 10-50 -- it is the range of 15-40 preferably. an average degree of polymerization of ethyleneoxide in one molecule of polyoxyethylene glyceryl fatty acid diester used in this invention -- 5-40 -- it is the range of 5-30 preferably. an average degree of polymerization of ethyleneoxide in one molecule of polyoxyethylene glyceryl fatty acid monoester used in this invention -- 3-30 -- it is the range of 3-20 preferably. Foaming becomes less enough [ all ], and when conversely higher than the maximum, an effect of dropping a makeup becomes less enough [ all ], when an average degree of polymerization is lower than the minimum.

[0013]In the above-izing 3, when it thinks from a point of a makeup cleaning effect in consideration of being combination to a detergent composition of a drainage system as a fatty acid kind of polyoxyethylene glyceryl fatty acid ester, it is preferred that they are isostearic acid or oleic acid. In this invention, a kind or two sorts or more in said polyoxyethylene glyceryl fatty acid ester can be used arbitrarily.

[0014]Maltitol ether used with polyoxyethylene glyceryl fatty acid ester can be expressed with said general formula-ization 4. In \*\* 4, A is the residue excluding a hydroxyl groups from maltitol, and R<sub>4</sub> and R<sub>5</sub> are a hydrogen atom, an alkyl group, or an alkenyl group, respectively. As an example of an alkyl group or an alkenyl group, a methyl group, an ethyl group, an isopropyl group, Although an octyl group, a lauryl group, the Millis Chill group, a palmityl group, a stearyl group, a 2-ethylhexyl group, an isostearyl group, an oleyl group, a PAL MITOO rail group, an eicosenyl group, etc. are mentioned, As for the sum total of a carbon number of R<sub>4</sub> from points, such as detergency and a using feeling, and R<sub>5</sub>, it is preferred that it is the range of 6-22. a expresses three or less integer. a of foaming is not enough when larger than 3. In this invention, a kind or two sorts or more can be arbitrarily used out of these maltitol ether.

[0015]in this invention -- a blending ratio of polyoxyethylene glyceryl fatty acid ester and maltitol ether -- a weight ratio -- 2:1 to 1:8 -- it is the range of 1:1-1:8 preferably, and both sum total loadings are 1 to 80% of the weight of a range in the cleansing cream cosmetics whole quantity. When a blending ratio besides this range is not enough as foaming when there is too much polyoxyethylene glyceryl fatty acid ester, and there is too much maltitol ether, a makeup does not get used easily, and a satisfactory result is not obtained also when it is any.

[0016]Into cleansing cream cosmetics concerning this invention, an ingredient generally blended with a charge of washing, cosmetics, etc. other than the above-mentioned indispensable constituent can be blended if needed. As these ingredients, a polyhydric alcohol class of glycerin, 1,3-butanediol, propylene glycol, etc., Oil, such as a liquid paraffin and higher alcohol, an anionic surface-active agent, a cationic surface-active agent, an ampholytic surface active agent, a thickener, a moisturizer, an antiseptic, a germicide, an ultraviolet ray absorbent, a chelating agent, an antioxidant, perfume, etc. are mentioned.

[0017]As mentioned above, cleansing cream cosmetics of this invention, While dropping charges of face make up, such as a lip stick, foundation, mascara, and eye shadow, good by making maltitol ether

coexist with polyoxyethylene glyceryl fatty acid ester, it can be made to foam by adding water.

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[Translation done.]

## EXAMPLE

[Example] Although an example is given to below and this invention is concretely explained to it, this invention is not limited only to these examples. In advance of an example, the appraisal method used in each example is explained.

[0019] 0.1 g of things which included 2-ethyl HEKISHIRUPARA methoxycinnamic acid in the makeup remover effect examining method oiliness foundation O.1% as a marker, It applied to the range of 4x10 cm of a forearm inner portion uniformly, and for 30 minutes, after desiccation, the test sample 0.5g was familiarized with the whole application part for about 20 seconds like the usual makeup remover act using the finger, and was flushed, without rubbing with 35 \*\* tap water after that. The makeup dropping effect was searched for by making the foundation which remains in the application part eluted by the ethanol of 1 2 m after desiccation using glass cups 2 cm in diameter, and measuring the quantity of 2-ethyl HEKISHIRUPARA methoxycinnamic acid in ethanol from ultraviolet absorption (310 nm).

[0020]

washing efficiency (%) =  $(A_2 - A_0) / (A_1 - A_0) \times 100 A_0$ ; -- the absorption evaluation O:makeup dropping effect fitness of the eluate after absorption A<sub>2</sub>:washing of the eluate before absorption A<sub>1</sub>:washing of a blank eluate . the not less than 90% of Washing efficiency \*\*:makeup dropping effect -- common The poor not less than 60% of washing efficiency x:makeup dropping effect 60% of washing efficiency Suemitsu [0021]40 \*\* artificial hard water (70 ppm calcium carbonate) was put into the cylindrical shape cylinder with an agitator of 2500mfoamable examining method 1 capacity 400-m1, and the amount of foam volume after adding the test sample 40g and O.1 g oily foundation, and after stirring for 1 minute at 4500 rpm was measured.

Evaluation O: Foaming is good. Foam-volume product 1200 mmore than1\*\*: Foam and common Foam-volume product 800 mmore than1 x: Foaming is poor. Less than one foam volume 800-m product [0022] using organic-functions type \*\* (in the least evaluation of admiration after use) each sample -- the skin after washing its face -- the actual use examination was carried out by 20 special panelists about the existence of admiration in the least. The valuation method followed the following standards.

O : 15 or more persons accepted as those with admiration in the least among 20 special panelists.

\*\*: Eight or more persons accepted as those with admiration in the least among 20 special panelists.

x: Seven or less persons accepted as those with admiration in the least among 20 special panelists.

[0023]

[Table 1]

..... Specimen 1 2 3 4 5 6 7 8 9, .....	..... ** Polyoxyethylene (20) glyceryl TORIISO stearate 20 18 15 13 10 7 5 2 0** maltitol hydroxy dodecylether 0 2 5 7 10 13 15 18 20 surface-active-agent sum total 20. .....	Purified water Remainder.
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..... The makeup remover effect O O O O O O O O O x foamability x x \*\* O O O O O It is admiration in the least. x x x \*\* O O O O O ..... [0024]as mentioned above, polyoxyethylene glyceryl fatty acid ester (polyoxyethylene glyceryl TORIISO stearate) -- if independent, although the makeup remover effect is comparatively excellent, it is in foamability and the tendency for admiration to be missing in the least. on the other hand -- maltitol ether (maltitol hydroxy dodecylether) -- if independent -- foamability -- although excelled in admiration in the least, the makeup remover effect is missing. And in the coexistence system of polyoxyethylene glyceryl

fatty acid ester and maltitol ether, the blending ratio can demonstrate both 2:1-1:8, and the makeup remover effect and usability who were preferably excellent in 1:1-1:8 by a weight ratio.

[0025]

[Table 2]

Specimen \* 10 11 12 13 14 15 16 17 18. -----  
POE (5) GL trio REETO 10 -, - - - - POE(15) GL Triplet \*\*\*\*\* 10 - - - - - POE(45) GL Triplet \*\*\*\*\* -  
10 - - - - - POE(60) GL Triplet \*\*\*\*\* - - - 10 - - - - POE (5). GL dioleate - - 10 -, - - POE(35) GL dioleate .  
- - - 10 - - - POE (3). GL monooleate - - - 10 - - POE(25) GL monooleate - - - - 10 - POE(40) GL  
monooleate - - - - - 10 malfitol hydroxy dodecylether 10 10 10 10 10 10 10 10 10 10. -----

----- purified water \*\* Part --, makeup remover effect \*\* O O x  
O O O O x foamability admiration \*\* O O x O O O O x x O O \*\* O O O O \*\* -- in the least. A

\*POE= polyoxyethylene, GL = glyceryl [0026]The combination effect concerning this invention so that more clearly than the above-mentioned table 2, The average degree of polymerization of the ethyleneoxide occupied in a polyoxyethylene glyceryl fatty acid triester molecule 10-50, The average degree of polymerization of the ethyleneoxide occupied in a polyoxyethylene glyceryl fatty acid diester molecule 5-40, The average degree of polymerization of the ethyleneoxide occupied in a polyoxyethylene glyceryl fatty-acid-monoester molecule is a phenomenon specifically looked at by polyoxethylene glyceryl fatty acid ester which is 3-30.

[0027]

[Table 3]

REETO 10 10. 10 10 10 maltitol hydroxyhexyl ether 10 - - - maltitol hydroxyoctyl ether 10 - - - maltitol hydroxycetyl ether - 10 - - maltitol hydroxy behenyl ether . - 10 - maltitol hydroxyhexacosyl ether - - 10. purified water \*\* The complementary makeup remover effect x O O O O foamability x O O O x -- in the least -- admiration \*\* O O O x [0028]The maltitol ether used in this invention is understood that it is preferred that the sum total of the carbon number of R<sub>4</sub> and R<sub>5</sub> is maltitol ether of 6-22 in the above-izing 4 so that more clearly than the above-mentioned table 3.

[0029]Next, it verified about the various examples of combination.

[Table 4]

..... Specimen 24 25 26 27 28 29. ....

Polyoxyethylene glyceryl fatty-acid-ester POE(30) glyceryl TORIOREETO 2 5 6 4 - -POE(15) glyceryl monoisostearate - 6 - 6 - POE(5) glyceryl mono-laurate - - - 5, -----, Maltitol ether maltitol HIDOROKISHIMIRISUCHIRUETERU 5 10 12 32 15 - maltitol hydroxy dodecylether 5 - - - 15.

In addition, 1,3-butanediol 10.8-10.10 purified water \*\*

Complementary. The \_\_\_\_\_ makeup remover effect O O O O O \*\* foamability O O O O O O It is admiration in the least. O O O O O O \_\_\_\_\_ [0030]A synergistic effect is accepted to be various kinds of polyoxyethylene glyceryl fatty acid ester to various maltitol ether as mentioned above, and it is understood that it is preferred that they are isostearate and/or oleate as for especially polyoxyethylene glyceryl fatty acid ester.

[0031]example 1(1) polyoxyethylene (15) glyceryl TORIISO stearate 8-% of the weight lauryldimethyl [ (2) ] acetic acid betaine 10(3) maltitol hydroxy MIRISUCHIRU ether 4(4) lauryl diethanolamide . 2 (5) 1,3-butanediol 15 (6) polyethylene glycol 1500 5 (7) hydroxyethyl cellulose 2.5 (8) perfume \*\* Quantity

(9) purified water \*\* Complementary[0032]After dissolving (5), (6), and (7) in the process (9) and mixing (4) with (2) and (3), (1) and (8) were added and gel form cleansing cream cosmetics were obtained.

[0033]Example 2 (1) polyoxyethylene (5) glyceryl monooleate 5-% of the weight polyoxyethylene [ (2) ] (30) glyceryl TORIISO stearate 1(3) maltitol hydroxy dodecylether 3(4)l,3-butanediol . 10 (5) sorbitol 8 (6) methyl cellulose 3 (7) perfume \*\* Quantity (8) purified water \*\* Complementary[0034] After dissolving (4) - (6) in the process (8) and mixing (3), (1), (2), and (7) were added and gel form cleansing cream cosmetics were obtained. the gel form cleansing cream cosmetics of Examples 1 and 2 are excellent in the makeup remover effect and foamability -- moreover -- the use back -- admiration was also very good in the least.

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[Translation done.]

## CLAIMS

[Claim(s)]

[Claim 1]Cleansing cream cosmetics containing maltitol ether expressed in the general formula-ization 2 as polyoxethylen glyceryl fatty acid ester expressed with the general formula-ization 1

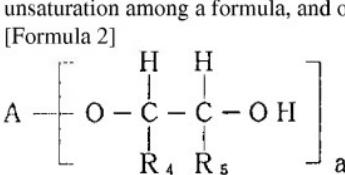
[Formula 1]



$$\text{CH}_2 - \text{O} - (\text{C}_2\text{H}_4\text{O})_n - \text{COR}_3$$

(At least one of  $R_1$ ,  $R_2$ , and  $R_3$  is a high class)

(At least one of  $R_1$ ,  $R_2$ , and  $R_3$  is a high-class area)



(Among a formula, it is a hydrogen atom, an alkyl group, or an alkenyl group, and the sum total carbon numbers of R<sub>4</sub> and R<sub>5</sub> are 6-22, and, as for the residue excluding [ A ] maltitol to a hydroxyl groups, R<sub>4</sub>, and R<sub>5</sub>, a expresses the integer of 1-3.)

[Claim 2]Cleansing cream cosmetics, wherein polyoxyethylene glyceryl fatty acid ester is a triester object in the cleansing cream cosmetics according to claim 1 and average degrees of polymerization of ethyleneoxide in one molecule are 10-50.

[Claim 3]Cleansing cream cosmetics, wherein polyoxyethylene glyceryl fatty acid ester is a diester object in the cleansing cream cosmetics according to claim 1 and average degrees of polymerization of ethyleneoxide in one molecule are 5-40.

[Claim 4]Cleansing cream cosmetics, wherein polyoxyethylene glyceryl fatty acid ester is a monoester object in the cleansing cream cosmetics according to claim 1 and average degrees of polymerization of ethyleneoxide in one molecule are 3-30.

[Claim 5]Cleansing cream cosmetics characterized by fatty acid kinds of polyoxyethylene glyceryl fatty acid ester being isostearic acid and/or oleic acid in the cleansing cream cosmetics according to claim 1 to 4.

[Translation done.]